(Prior Art)

Figure 1.

(Prior Art)

Figure 2.

Figure 3

Figure 4

A:)

$$\left| Q(t) \cdot (-\sin(\omega_0 \cdot t)) \right| \qquad \left| I(t) \cdot \cos(\omega_0 \cdot t) \right|$$
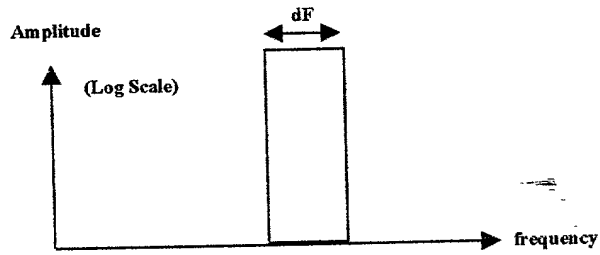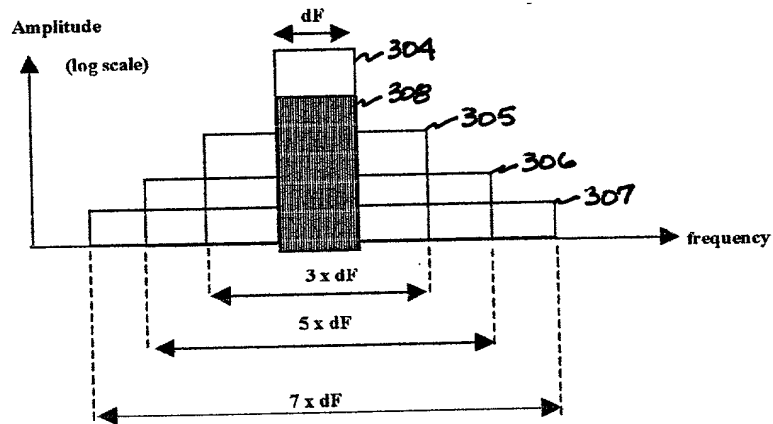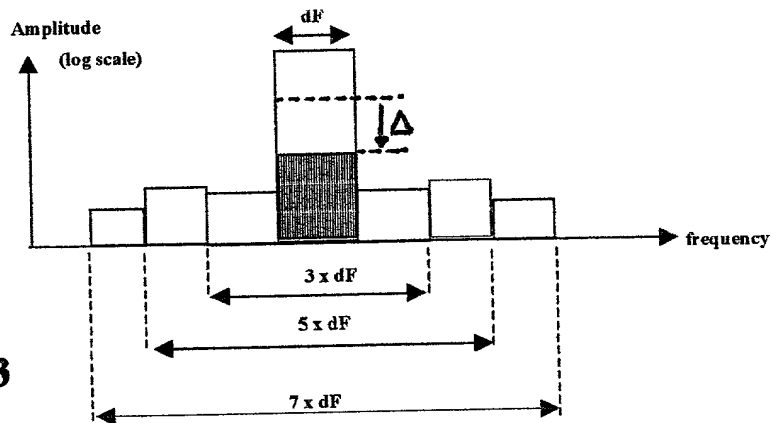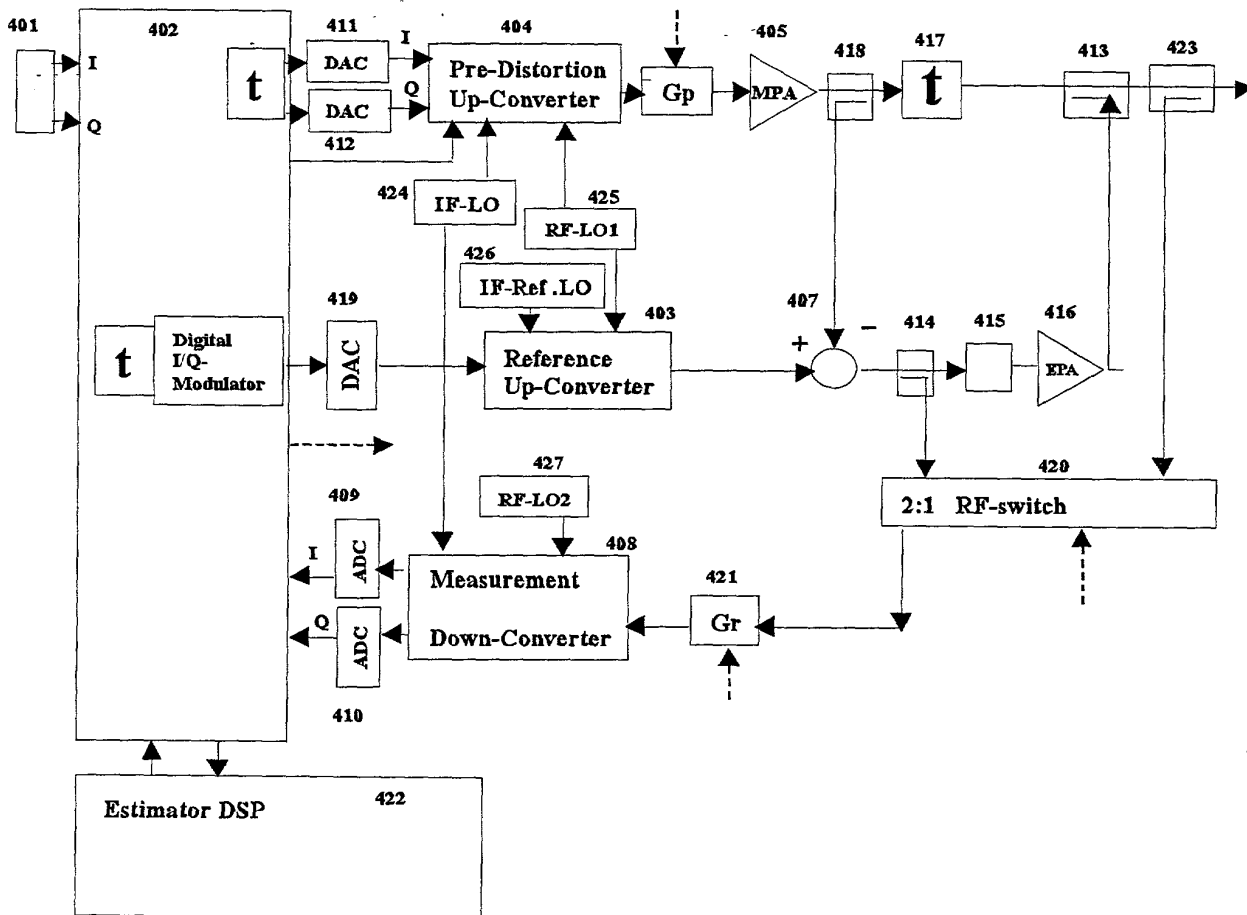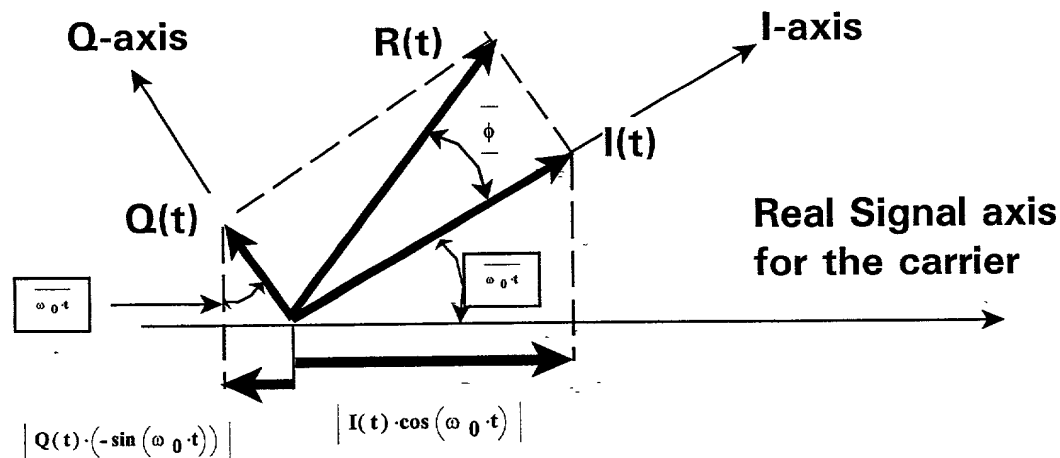
B:)
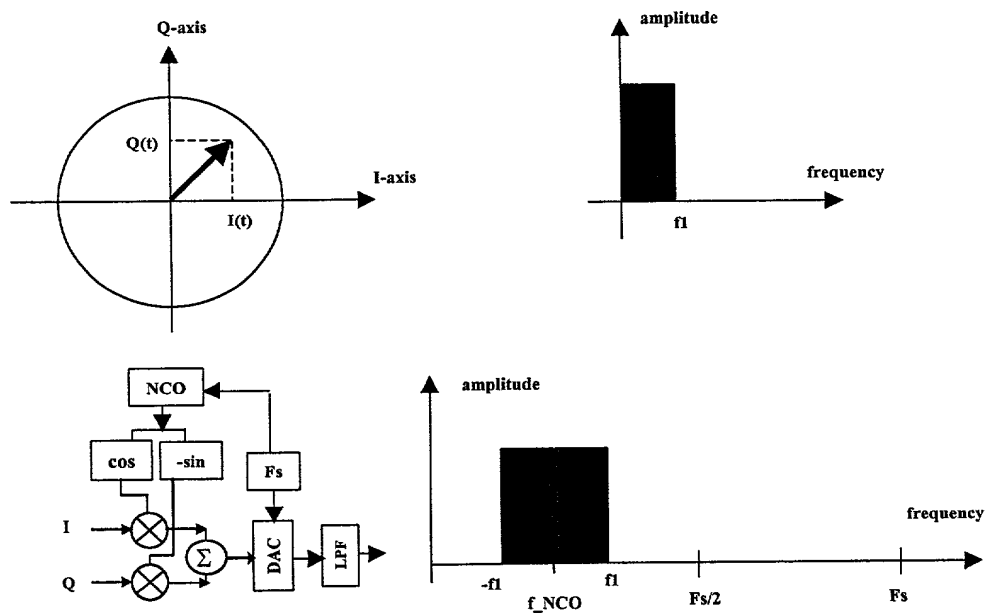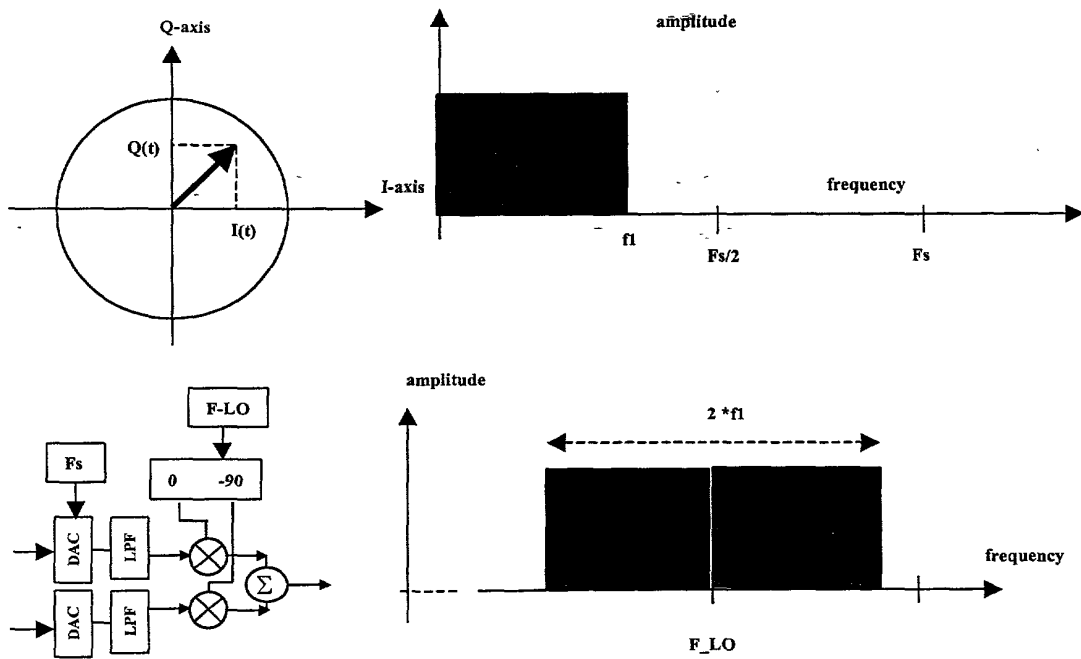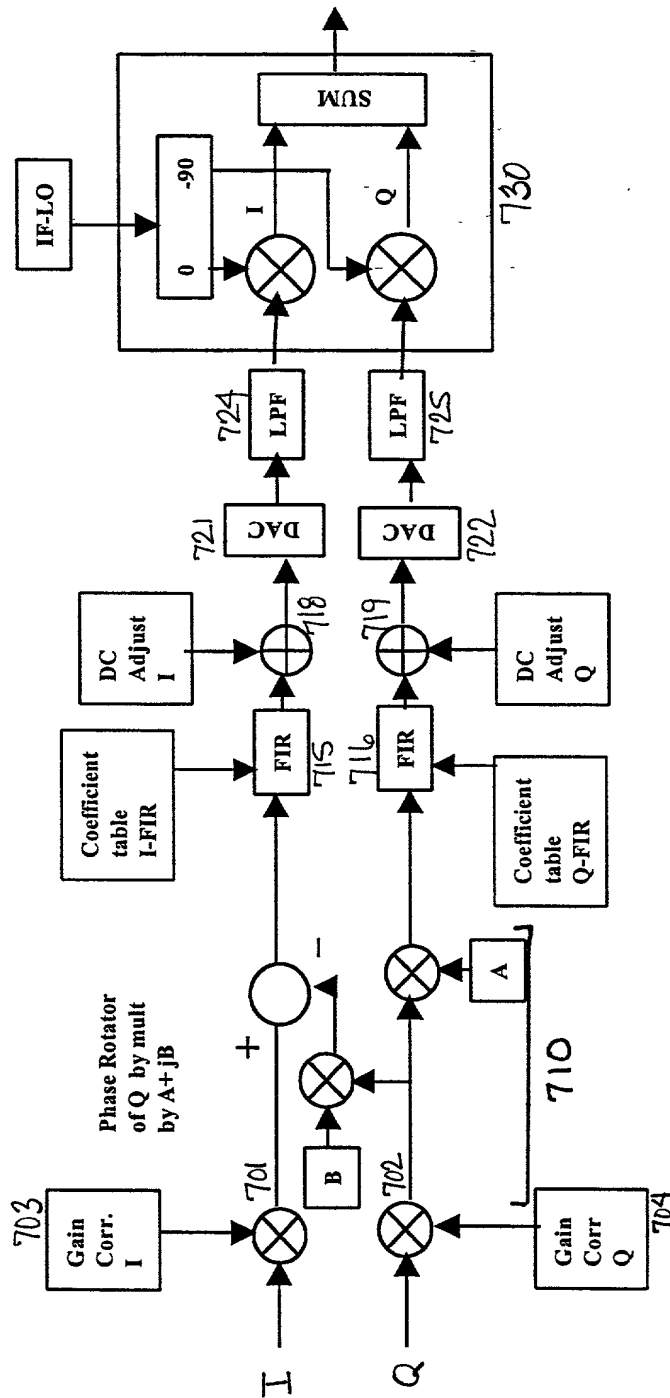
Figure 5

Figure 6

$jQ*(A+jB)=jQA-QB$

Figure 7A:)

Figure 7 B:)

Figure 8.

(Prior Art)

a:)

b:)

c:)
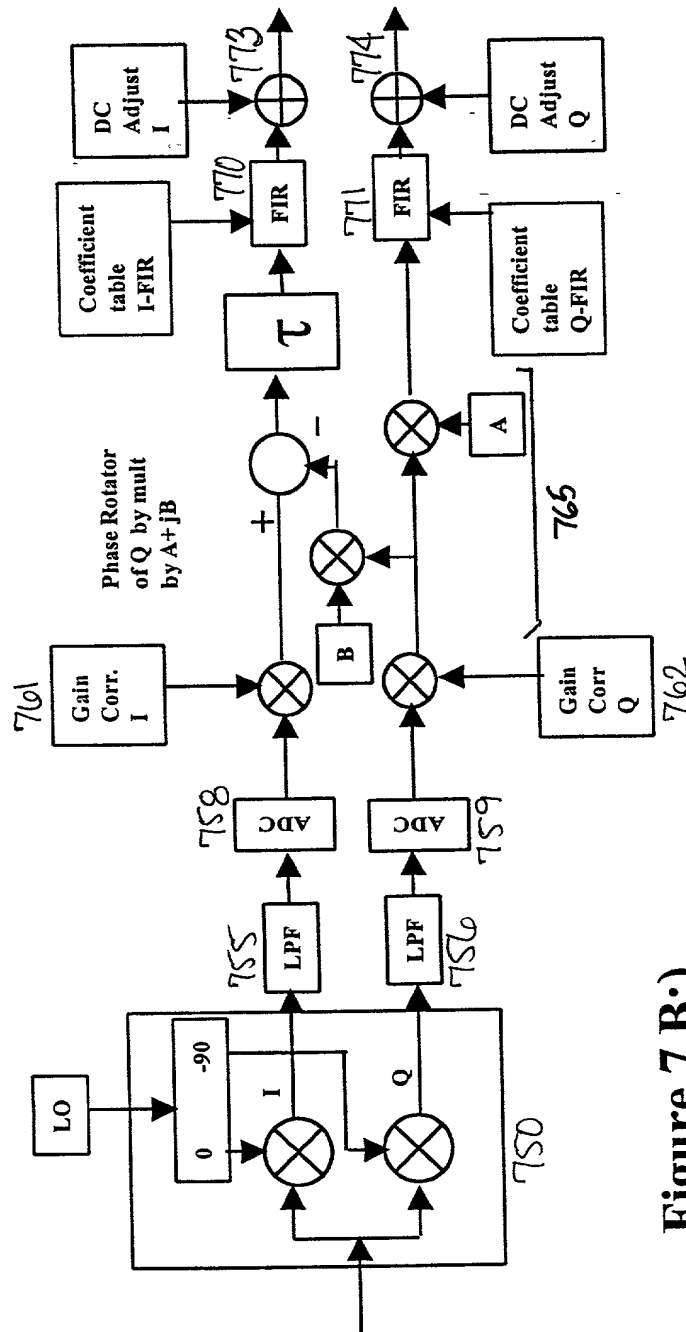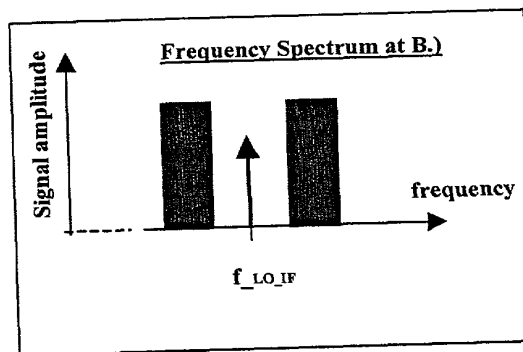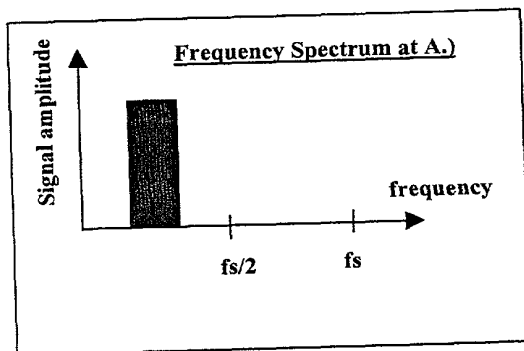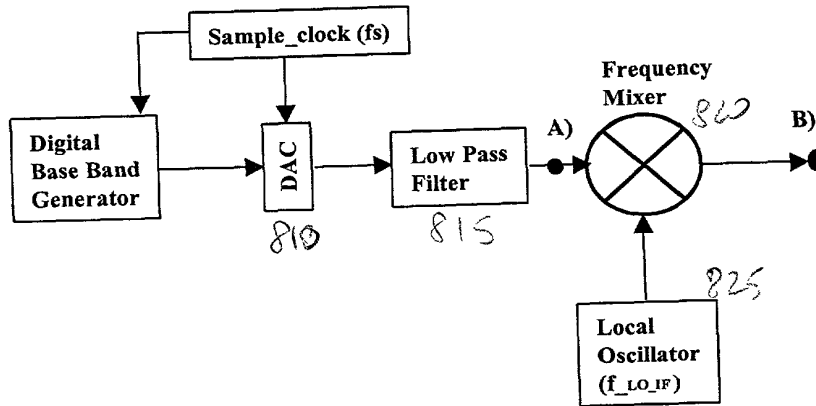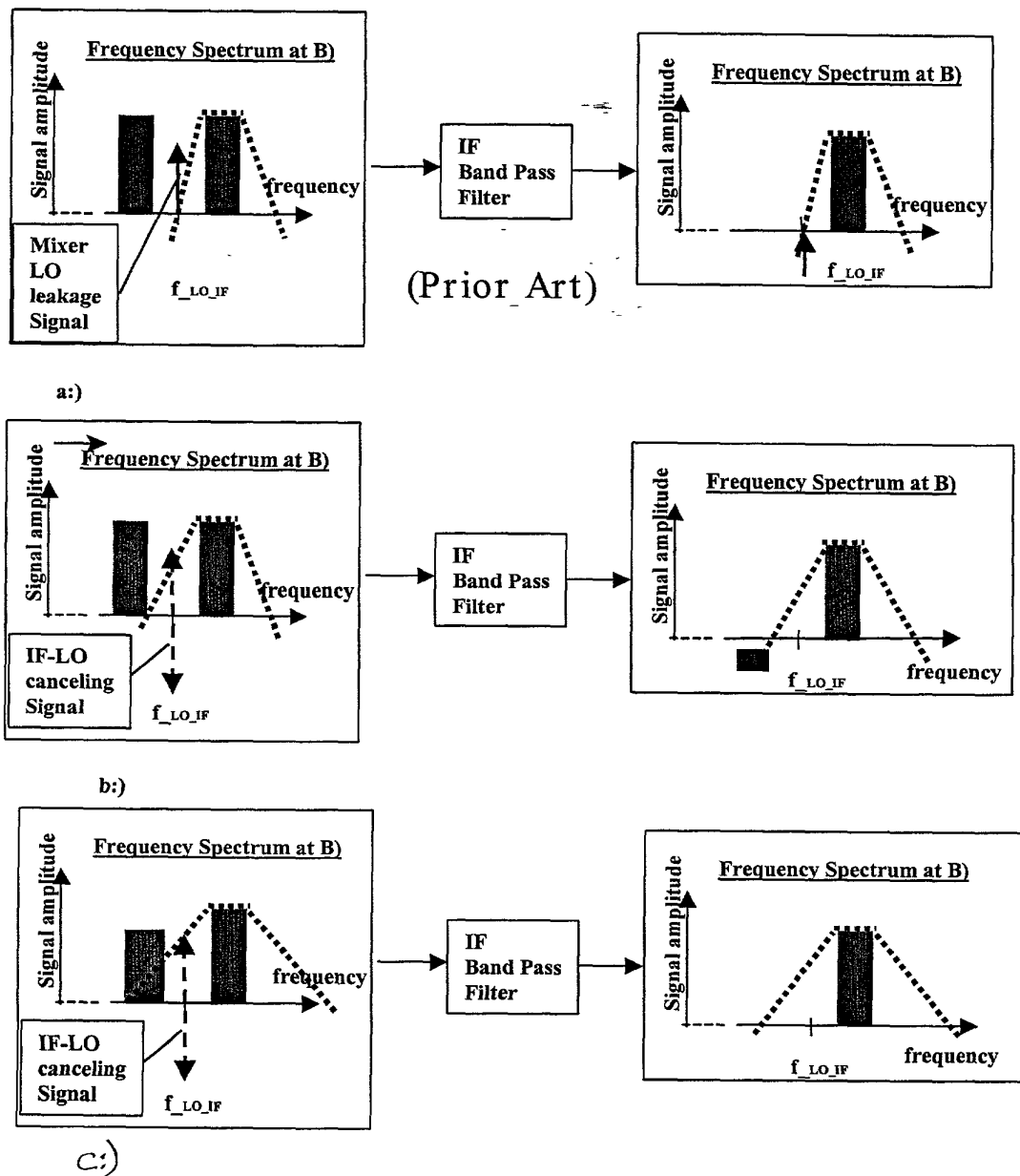
Figure 9.

Figure 10.

Figure 11.

Reference RF-Up Converter signal

A:)

Spec level

IF-LO cancelled

RF-LO noise level

IF-filter Reference

Summed DAC, IF-LO and RF-LO noise level
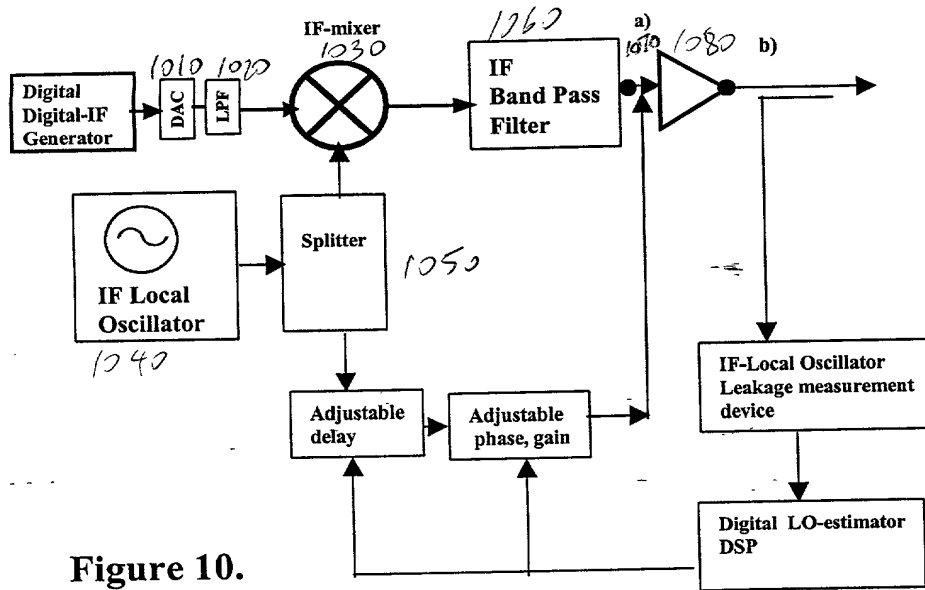
IMAGE

B:]

Main Power Amplifier output without Pre-distortion

RF Bandpass filter influence

Spec level

C:]

Main Amplifier Output

Main power Amplifiewr output with band limited Predistortion

Spec level

Pre-distortion Bandwith

D:]

Error Amplifier Output

Spec level

Figure 12

FIGURE 13